



TwinN - HOW DOES IT WORK?

TwinN provides a combination of selected microbial species (Diazotrophs) that act synergistically to increase crop yield by fixing nitrogen (N₂) from the atmosphere into NH₃ that crops can use as a steady supply of nitrogen through the season. The microbes also produce plant growth factors (PGFs) that increase the efficiency of crop growth, in particular root growth and efficiency of capture of nutrients. Please refer to '**TwinN Mechanism of Action**' for a summary of how TwinN works. '**TwinN in 15 Minutes**' also provides a broader background on How TwinN works in crops.

TwinN is a freeze-dried product that allows a very high number of selected microbial species to be supplied. This is key to a good quality bio-fertiliser. The freeze-dried microbes are re-suspended in a small quantity of non-chlorinated water then mixed into a larger volume of water for application to the crop via the soil to the roots. Please refer to '**Crop Application**' for a summary of how best to apply TwinN.

TwinN microbes locate to two main sites of action after application to the crop. A proportion live (as 'endophytes') within the plant leaves, stem and roots where they multiply and supply nitrogen and other growth factors to the plant. A second population becomes established in the 'rhizosphere', the zone very close to, and on the surface of the roots and root hairs. These also supply nitrogen and plant growth factors. The dual sites of action, as endophytes and in the root zone provide high efficiency - hence 'TwinN'!

